## Claims

What is claimed is:

1. An image processing device that reads an image signal from a solid-state image-pickup element where a plurality of unit pixels including a transistor for detecting a light signal and a photo diode are arranged in a matrix, the device comprising:

a first shift register connected to a line of the matrix for reading out an image signal, the first shift register selecting a line where a signal in response to carriers accumulated in an accumulation state for generating carriers in the photo diode in response to received light is read out;

a second shift register connected to a line for clearing an image signal, the second shift register selecting a line for clearing an image signal where residual carriers in the solid-state image-pickup element are discharged from the solid-state image-pickup element; and

an output circuit that outputs shift data applied to the line for reading out an image signal, based on which selection signal for selecting the line for reading out an image signal is output, to the first shift register, when a number of lines between the line for reading out an image signal and the line for clearing an image signal is equal to or less than a total number of lines in the matrix and a condition for picking an image up is changed, and further the output circuit inhibiting the output of the shift data to the first shift register, when the number of lines between the line for reading out an image signal and the line for clearing an image signal is more than the total number of lines in the matrix and the condition for picking an image up is changed.

2. The image processing device according to claim 1, further comprising:

another output circuit that outputs a reset signal to the second shift register.

3. The image processing device according to claim 1, wherein the condition for picking an image up further comprises at least on of a frame rate, a shutter speed and a scanning direction.

- 4. The image processing device according to claim 1, wherein the output circuit outputs the selection signal when generating an interlacing frame according to frame rate.
- 5. An image processing method of reading an image signal from a solid-state image-pickup element where a plurality of unit pixels including a transistor for detecting a light signal and a photo diode are arranged in a matrix, the method comprising:

forming a first shift register connected to a line of the matrix for reading out an image signal, the first shift register selecting a line where a signal in response to carriers accumulated in an accumulation state for generating carriers in the photo diode in response to received light is read out;

forming a second shift register connected to a line for clearing an image signal, the second shift register selecting a line for clearing an image signal where residual carriers in the solid-state image-pickup element are discharged from the solid-state image-pickup element; and

outputting shift data applied to the line for reading out an image signal, based on which selection signal for selecting the line for reading out an image signal is output, to the first shift register, when a number of lines between the line for reading out an image signal and the line for clearing an image signal is equal to or less than a total number of lines in the matrix and a condition for picking an image up is changed; and

inhibiting the output of the shift data to the first shift register, when the number of lines between the line for reading out an image signal and the line for clearing an image signal is more than the total number of lines in the matrix and the condition for picking an image up is changed.

- 6. A solid-state image-pickup device, comprising:
- a solid-state image-pickup element where a plurality of unit pixels including a transistor for detecting a light signal and a photo diode are arranged in a matrix;
- a first shift register connected to a line of the matrix for reading out an image signal, the first shift register selecting a line where a signal in response to carriers accumulated in an accumulation state for generating carriers in the photo diode in response to received light is read out;

a second shift register connected to a line for clearing an image signal, the second shift register selecting a line for clearing an image signal where residual carriers in the solid-state image-pickup element are discharged from the solid-state image-pickup element; and

an output circuit that outputs shift data applied to the line for reading out an image signal, based on which selection signal for selecting a line for reading out an image signal is output, to the first shift register, when a number of lines between the line for reading out an image signal and the line for clearing an image signal is equal to or less than a total number of lines in the matrix and a condition for picking an image up is changed, and further the output circuit inhibiting the output of the shift data to the first shift register, when the number of lines between the line for reading out an image signal and the line for clearing an image signal is more than the total number of lines in the matrix and the condition for picking an image up is changed.